

Message Text

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TO AMEMBASSY MOSCOW

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EO 11652: NA

TAGS: TECH, UR,US

SUBJ: US-USSR ATOMIC ENERGY AGREEMENT: CTR COOPERATION

REF: MOSCOW 5552

FOR SCICOUNS

1. PLEASE DELIVER FOLLOWING MESSAGE TO DR. Y.P. VELIKHOV,
I.V. KURCHATOV INSTITUTE OF ATOMIC ENERGY, MOSCOW D-182,
FROM DR. R. HIRSCH, AEC.

2. DEAR DR. VELIKHOV: THE PURPOSE OF THIS MESSAGE IS TO
STATE OUR VIEWS ON SUBJECT MATTER AND AGENDA FOR OUR
FORTHCOMING MEETING BEGINNING MAY 20. AS WE DISCUSSED
DURING YOUR VISIT HERE IN FEBRUARY, WE ARE VERY INTERESTED
IN UNDERSTANDING SOVIET FUSION PROGRAM IN GREAT DEAL
OF DETAIL. WE, THEREFORE, BELIEVE IT DESIRABLE TO SPEND
SIGNIFICANT AMOUNT OF TIME AT OUR FORTHCOMING MEETING
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LISTENING TO PRESENTATIONS ON YOUR PLANS AND, IN TURN,

EXPLAINING OURS TO YOU. THIS WILL PROVIDE SOUND BASIS FOR CONSIDERATION OF SPECIFIC AREAS OF SCIENTIFIC COOPERATION.

3. I WOULD LIKE TO SUGGEST FOLLOWING AS AN AGENDA FOR OUR DISCUSSIONS IN MOSCOW IN MAY.

I. EXPOSITION AND DISCUSSION OF USSR AND US CONTROLLED THERMONUCLEAR RESEARCH PLANS AND PROGRAMS. I PROPOSE ABOUT 6 HOURS (ONE MEETING DAY) ON SOVIET PROGRAM AND SAME SECOND DAY ON US PROGRAM. THIS WOULD ALLOW FOR PRESENTATIONS (HOPEFULLY ALL IN ENGLISH) AND QUESTIONS.

II. A DISCUSSION AIMED AT COMPLETING ARRANGEMENTS FOR VISITS ALREADY PLANNED FOR CALENDAR YEAR 1974. THIS MIGHT TAKE ABOUT 4 HOURS ON THIRD DAY.

III. PRELIMINARY DISCUSSIONS OF RECIPROCAL PROGRAMS FOR CALENDAR 1975. THIS MIGHT TAKE REMAINDER OF THIRD DAY AND FIRST PART OF FOURTH DAY.

4. I ASSUME THAT WE WOULD BREAK FOR ABOUT 2 HOURS AT LUNCH.

5. WHILE WE ARE IN MOSCOW, WE WOULD LIKE TO VISIT FUSION RESEARCH FACILITIES AT LEBEDEV, KURCHATOV AND KRASNAYA PAKHRA. IT WOULD BE MOST CONVENIENT FOR US IF THESE VISITS COULD TAKE PLACE IMMEDIATELY FOLLOWING OUR DISCUSSIONS. THEREAFTER, WE WOULD BREAK OUR DELEGATION INTO TWO GROUPS. ONE GROUP WOULD LIKE TO VISIT THE JOFFE AND EFREMOV INSTITUTES IN LENINGRAD. OTHER GROUP WOULD PREFER TO VISIT CTR CENTERS AT KHARKOV, SUKHUMI, AND TBILISI. IN ADDITION, DR. GOTTLIEB HAS TENTATIVE PLAN TO ACCEPT DR. BUDKER'S INVITATION TO VISIT NOVOSIBIRSK. I HOPE THAT THESE VISITS WILL BE CONSISTENT WITH YOUR PLANS FOR OUR MEETING NEXT MONTH.

6. I WOULD LIKE TO SUGGEST FEW AREAS FOR DISCUSSION AS POSSIBLE 1975 ACTIVITIES UNDER TERMS OF OUR PROTOCOL. WE UNCLASSIFIED

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WOULD LIKE TO CONTINUE AND EXPAND OUR COOPERATION IN AREA OF FUSION THEORY AND EXPERIMENT. THIS INVOLVES TECHNICAL MEETINGS ON TOPICS OF MUTUAL INTEREST AND SHORT-AND-LONG-TERM VISITS OF SCIENTISTS TO WORK ON EXPERIMENTS. WE ARE PARTICULARLY INTERESTED IN THOSE AREAS IN WHICH MORE KNOWLEDGE IS REQUIRED FOR PLANNING AND DESIGN OF LARGER FUSION EXPERIMENTS. WE WOULD LIKE TO DISCUSS EXCHANGES IN SEVERAL ENGINEERING AREAS. THESE INCLUDE SURFACE EFFECTS

AND BILK RADIATION EFFECTS AS THEY RELATE TO FIRST WALL
AND OTHER STRUCTURAL PARTS OF FUSION REACTOR, SUPER-
CONDUCTING MAGNETS, ENERGY STORAGE AND SWITCHING DEVICES,
AND PLASMA HEATING TECHNOLOGY.

7. THE US DELEGATION TO MAY MEETING OF JOINT FUSION
POWER COORDINATING COMMITTEE WILL CONSIST OF:

WILLIAM A. ANDERS, COMMISSIONER, US ATOMIC
ENERGY COMMISSION;

ROBERT L. HIRSCH, DIRECTOR, DIVISION OF
CONTROLLED THERMONUCLEAR RESEARCH, USAEC;

STEPHEN O. DEAN, ASSISTANT DIRECTOR FOR
CONFINEMENT SYSTEMS, DIVISION OF CONTROLLED
THERMONUCLEAR RESEARCH, USAEC;

ALVIN W. TRIVELPIECE, ASSISTANT DIRECTOR FOR
RESEARCH, DIVISION OF CONTROLLED THERMONUCLEAR
RESEARCH, USAEC;

JOHN F. CLARKE, DIRECTOR, THERMONUCLEAR DIVISION,
OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE;

T.K. FOWLER, ASSOCIATE DIRECTOR, LAWRENCE
LIVERMORE LABORATORY, LIVERMORE, CALIFORNIA;

M.B. GOTTLIEB, DIRECTOR, PRINCETON PLASMA PHYSICS
LABORATORY, PRINCETON, NEW JERSEY;

F.L. RIBE, DIRECTOR, THERMONUCLEAR DIVISION,
LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS,
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NEW MEXICO;

R.L. BINGHAM, COORDINATOR FOR PLANS, DIVISION OF
CONTROLLED THERMONUCLEAR RESEARCH, USAEC.

8. AS I POINTED OUT PREVIOUSLY, WE NEED TO RECEIVE
INVITATIONS FROM YOU IMMEDIATELY. SEVERAL MEMBERS OF THE
US DELEGATION WILL BE COMING TO SOVIET UNION DIRECTLY
FROM OTHER FOREIGN COUNTRIES, AND ALL ARRANGEMENTS MUST
THEREFORE BE COMPLETED VERY QUICKLY. UNFORTUNATELY, MY
SCHEDULE REQUIRES THAT I RETURN TO UNITED STATES ON
SUNDAY, MAY 26, SO I WILL NOT BE ABLE TO VISIT LABS OUTSIDE
MOSCOW. THESE WILL, HOWEVER, BE VISITED BY OTHERS, OF
COURSE.

9. I AM LOOKING FORWARD TO SEEING YOU AT IFRC MEETING IN VIENNA. I BELIEVE THAT OUR MEETING IN MOSCOW WILL BE PRODUCTIVE AND WILL HELP LAY MORE DETAILED FOUNDATION FOR EFFECTIVE COOPERATION IN CONTROLLED THERMONUCLEAR RESEARCH BETWEEN US AND USSR. WITH BEST REGARDS,
ROBERT L. HIRSCH, DIRECTOR, DIVISION OF CONTROLLED THERMONUCLEAR RESEARCH. KISSINGER

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